

Title (en)
OPERATIONALLY RELIABLE PARKING VALVE

Title (de)
BEDIENUNGSSICHERES PARKVENTIL

Title (fr)
SOUPAPE DE STATIONNEMENT FIABLE

Publication
EP 3807135 B1 20230208 (DE)

Application
EP 19736592 A 20190611

Priority
• DE 102018209479 A 20180613
• EP 2019065163 W 20190611

Abstract (en)
[origin: WO2019238651A1] The invention relates to a parking valve (1) for manually actuating a spring-loaded parking brake, comprising: a housing (2) comprising a connection (2a) that can be fluidically connected to a release chamber of a spring-loaded brake cylinder (3), a connection (2b) that can be fluidically connected to a brake supply reservoir (4), and a ventilation connection (2c); a slide (5) which is designed for manual actuation and can be moved along a full section (14) between two end positions inside the housing (2), wherein the slide (5) is designed so as to assume positions along the full section (14), in which, as a result of at least one seal (6, 7), there is no fluidic connection between the connection (2a) to the release chamber and the ventilation connection (2c), and to assume other positions along the full section (14), in which, as a result of the at least one seal (6, 7), there is no fluidic connection between the connection (2a) of the release chamber and the connection (2b) to the brake supply reservoir (4); and a blocking device (10) which is designed to act on the slide (5) during movement at least along a partial section (12) of the full section (14) in at least one direction, with a continuously variable counterforce (FH) dependent on the position of the slide (5) on the partial section (12).

IPC 8 full level
B60T 15/04 (2006.01); **B60T 13/38** (2006.01); **B60T 17/22** (2006.01)

CPC (source: EP US)
B60T 7/08 (2013.01 - EP); **B60T 7/101** (2013.01 - EP US); **B60T 13/261** (2013.01 - EP); **B60T 13/385** (2013.01 - EP US); **B60T 15/041** (2013.01 - EP US); **B60T 15/182** (2013.01 - EP US); **B60T 15/206** (2013.01 - EP); **B60T 15/226** (2013.01 - EP); **B60T 15/246** (2013.01 - EP); **B60T 17/221** (2013.01 - EP); **B60T 13/261** (2013.01 - US); **F16K 21/10** (2013.01 - US)

Citation (examination)
• EP 1386810 B1 20050504 - HALDEX BRAKE PROD GMBH [DE]
• EP 1132275 B2 20120613 - KNORR BREMSE SYSTEME [DE]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
DE 102018209479 A1 20191219; BR 112020024050 A2 20210209; CN 112262064 A 20210122; CN 112262064 B 20230526; EP 3807135 A1 20210421; EP 3807135 B1 20230208; ES 2942858 T3 20230607; JP 2021526477 A 20211007; JP 7179876 B2 20221129; US 11577710 B2 20230214; US 2021237707 A1 20210805; WO 2019238651 A1 20191219

DOCDB simple family (application)
DE 102018209479 A 20180613; BR 112020024050 A 20190611; CN 201980039445 A 20190611; EP 19736592 A 20190611; EP 2019065163 W 20190611; ES 19736592 T 20190611; JP 2020569070 A 20190611; US 201917251430 A 20190611